

# SGS H & SGS V

## Horizontal and Vertical Sphere Gaps



### Application

The sphere gaps can be used for Impulse, AC or DC voltage calibration according to the IEC 60052 recommendation. The sphere-gap presents the undeniable advantage of a direct and straightforward voltage measurement, where only the sphere diameter and their distance gives a voltage measurement within  $\pm 3\%$  accuracy.

As both spheres are mounted on columns of insulating material on the horizontal sphere gaps, it's possible to superimpose impulse, alternating and direct voltages for special tests.

For the chopping of lightning impulses, the sphere gap can be equipped with the optional chopping device SGS Z.

The type designation consists of the characters KFS, H for horizontal design and V for vertical and the sphere diameter in mm, e.g. SGS H 250.

### Design

Designed for indoor operation. The measuring spheres are made of highly polished copper with small manufacturing tolerances. In the horizontal design, they are mounted together with the adjusting gear on supporting columns. The adjusting gear consists of a hand-wheel and precision scale for adjustment of the sphere gap (accuracy 0.5 mm). The vertical, motorized design includes the sphere drive placed on the base frame.

### Technical Data

Type	Sphere diameter D mm	Ratings for AC peak, DC and impulse voltage L.I. 1.2 / 50 $\mu$ s measurements Spacing of 0.5 x D kV	Max. voltage L.I. 1.2 / 50 $\mu$ s for chopping on the tail Spacing of 0.5 x D kV
SGS H 150	150	177	177
SGS H 250	250	275	275
SGS V 250	250	275	275
SGS V 500	500	515	515
SGS V 750	750	750	750
SGS V 1000	1000	1010	1010

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